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FIGURE 2

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FIGURE 3

METHOD FOR RISK BASED TESTING

by Scott Alan NOONAN, et al.
U.S. Patent Application No.: To Be Assigned Attorney Docket No.: 52493.000374
Filed March 31, 2004

Test Case .	Detail Report		ilter = EDE oup Filter = INT								
•	•	· Total	# of test cases in th	is report	i = 140			<i>.</i> .			
Test Group Case #	Description			Tester		Build	Test Status	iotes			
-	GEFA - 599 /fax copy - GEFA 50	A SERVANVE choose 5		8		EDE	Not				
INT 3		Inout Data	Success Condition	Passed	Related bugs	Teste	Notes (Result	s)		Rude ID	Req ID
Step#	Test Step Action Data entry of forms	Part 1 and Part 2	CLF record is created. No tasks generate; CLF	No						•	
2	NB/Verify Champ New App message	Part 1	New App message in Champ	No				·			-
3	NB/MIB	proper signed authorization	60d5 displays VERDET requirement	No							
4	NB/Requirements	successful aubmit	60d5 displays HOS and SMA requirements	No							
5	CLF 60d1 Display	Payment Method & mode, application date	60d1 shows DIR SEM, application date from	No				•		*	
. •	CLF 60d2 Display	Plan, Amount, Riders/Benefits,	60d2 shows Term 10C, 2,000,000, Preferred No	No							
7	CLF 60d3	Agent information	60d3 is blank	No							
•	CLF 60d7	Owner/Beneficiary/Payo r/Proposed Insured	60d7 displays proposed insured, owner,	No							
. 9	CLF 60d8	Owner/Insured/Payor address	60d8 displays proposed insured, owner, payor	No ·							
. 10	CLF 60US	Premium Pay State, Channel, Site, BGA #,	80US correct based on application	No							
11	CLF 60xx	Bill Code, AppSt. Replacement Code,	60xx correct based on application	No				:			
. 12	AKUP	change DOB 11/11/1938	update to reflect new	No No							
13	ACDL	Delete Current Alpha - verily correcct seq id	Alpha record is deleted	No No							
14	AKLM	From pending display screen create new Alpha	Alphe record built and seq id matches the 6091 60D5 acreen displays	No.							
15	60d5 - MIB	Response received from MIB	receipted VERDET 6089, 60d7 should	No ·							
. 18	20NA	add Payor - Susan R . Grabherr, 123 any add first modal premium	display Payor name 60CW and 60D1 display	No.					:	:	
. 17	40kw	Decline medically	money applied	No.							
. 18	Champ - final disposition	Decline medicasy									

FIGURE 4

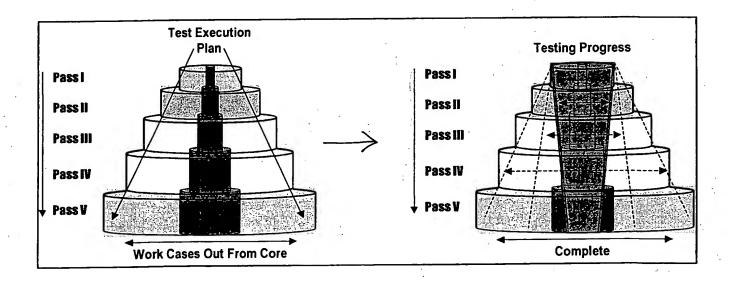


FIGURE 5

Filed March 31, 2004

# **Bug Reporting and Tracking**

#### **Tester**

- · Identify/report suspected bugs. The bugs are entered into the bug tracking tool with a detailed description.
- · Coordinate and check for duplication of bugs, redundant bugs where possible.
- Generate reports to review status of reported bugs for retesting as needed.



# Troubleshooter/Business & Technical Support

- · Generate a report of all reported bugs, validating against the design requirements.
- · Coordinate with technical/business to locate source of the bugs and develop business solutions.
- · Communicate to testers the status of reported bugs by updating bug status in the TEST SOFTWARE
- · Verify reported bugs and set the initial severity, discovery category, original bug reason, and tester. If Applicable, owner, notes and screenshotsmy be included
- Coordinate the modification and development of rules, User Interfaces, form flows, workflow, and development of bug fixes.
- Provide update training procedures



### Bug REVIEW

- Attended by testers, troubleshooters, and development.
- · Review the analysis, business resolution, proper severity level and categorization of new bugs.
- · Check the status of key bugs.
- · Assign work.



## **Development Team**

- · Troubleshoot and fix bugs as assigned based on Bug Review Severity
- · Unit test fixes and prepare code for integration.



### **Deployment Team**

- · Receive unit tested fixes ready for Integration.
- · Change Bug Status to User Test when integration complete and new build is ready to test.
- · Notify Tester and Submitter by email when any change or update is made and is ready to test.



### Tester

- Tester will receive an email message when an update or status is made and is ready to test.
- · Retest the bug.
- If retest is successful, update the bug tracking tool with resolution details and close the bug.
- If retest fails, reset bug status to rework and notify development.

FIGUREG

ogram Data Manager - [Bug C	The second secon			
lug Entry/Manager	ment	Requery Reports Gose	When discovered/	Described.
ID Seventy James  1 2: Clean 5	Diane Russel 1	Functionality: Type 3 Supplement Forms	3/71/03 8:35:29 AM (3) 4/1/03 8:23:15 AM (3)	Under Specific Recing into you are not allowed to check more than one check box- You should be able to estect of that apply to that sencioning body and
2 4: (CTeam :	Diane Russel ©	Type 3 Supplement Forms	☑ 3/31/03830:25AM ③ ☑ 3/31/03830:28AM ③	GL7 Drop down fist is not in correct order. Need to have 6mos to 1 yr follow 0-6month aption
3 1 1 B 1 com 5	Donna Donovan E Bonia Clark 💮	Type 1 Part 1 Rules	3/28/03 3 51:53 PM [3] 4/7/03 6 44:08 PM [3]	beneficary dropdowns do not appear for trust type gardy, informal, last will -
4 - Clean F	Diane Russel 🖸 Tad Coburn 😴	Type 3 Supplement Forms	3/31/03 9 00 00 AM (G)	[1] When you click on "togout" fin DE jit takes you book to the login screen instead of the tauncher page 2) Logou button ham EM is a "dead button. Have to k
5 1: EDE Team	Kezi Sherituddin 😉 Linda Keessee 😉	Type 1 TIAA Form	3/28/03 11:11:19 AM (3) 5-3/31/03 11:11:22 AM (3)	TIAA form data not seved. To recreate complete the deta entry (Submit & End), go to EM, view TIAA data collector all fields are enoty.
6 2 EDE Teem ►	Kazi Sharifuddin 😥 Linda Keesse 😥	Type 1 Part 1 Rules	3/28/03 11:17:05 AM (3) 3/31/03 11:17:12 AM (3)	Part I form data: - Not saving "Premium Source"
7 2 EDE Team 5	<u> </u>	Retest Info	3/28/U3 11:24 48 AM (3)	Created incorrect DSS validation tests with descrepancy "application signs date is empty", and the company of the examined to determine is multiselect is
Beer core # Bug stehar: Bug rumber: Spreemshot	76 :	Retest status: Retest leases Date/Time: stVull GENIUS Testing\Date	needed: once esta denote the necess	blished visio will need to be updated with "purple text" to
		<u>Deick Lh</u>		
	] i			Program Date Mona

FIGURE 7

BEST AVAILABLE COPY

			Production	on vs. Model Of	fice Comparis	son	*	-	
	Server		<b>Applications</b>	Server Type	CPU	Int	FP	Memory	Disks
<u>S</u>	nm01	Production		Server Type 1	8 * 900 MHz	3680		16 GB	6 * 72 GB
Server	nm02	Production	App 2	Server Type 1	8 * 900 MHz	3680		16 GB	6 * 72 GB
20					Total	7360	10080		W 55
Role	nm09	Model	App 1 & 2	Servet Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
حــ		<u> </u>			Total	740	640		
					Difference	9.95	15.75	# of X larg	er
	nm03	Production		Server Type 3	2 * 750 MHz	740		4 GB	2 * 36 GB
တ္ဆ	nm04	Production		Server Type 3	2 * 750 MHz	740	640	2 GB	2 * 36 GB
Server	nm05	Production		Server Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
4	nm06	Production	Арр 3	Server Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
Role					Total	2960	2560		
le 2	nm10	Model	Арр 3	Server Type 3	2 * 750 MHz	740	640	4 GB	2 * 36 GB
					Total	740	640	-	
					Difference	4	4	# of X larg	er
ဖွ	nm07		App 4	Server Type 2	2 * 900 MHz	920	1260	4 GB	6 * 72 GB
Server	nm08	Production	App 4	Server Type 2	2 * 900 MHz	920	1260	4 GB	6 * 72 GB
9					Total	1840	2520		
Role	nm11	Model	App 4	Server Type 2	2 * 900 MHz	920	1260	4 GB	6 * 72 GB
le 3	<u> </u>				Total	920	1260		
					Difference	2	2	# of X larg	er

FIGURE 8

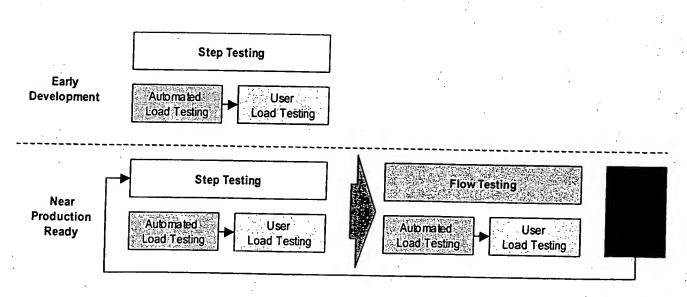


FIGURE 9

Source	Start	End	Elapsed	Forms	Per minute
log.3	12:07:20		49	146	<del></del>
log.2	12:56:41	15:32:49	154	502	3.26
log.1	15:33:06	18:12:38	159	477	3.00
log	18:12:46	19:06:07	54	147	2.72
Total Successful	<del>                                     </del>		416	1272	3.06
Error queue	<del> </del>			220	
Retry queue				524	
Forms Processed	1			2016	
System	Model	CPUs	Integer	Floating Point	
nm01	Server Type 1	8 * 900 MHz	3680	5040	
nm02	Server Type 1	8 * 900 MHz	3680	5040	
			7360	10080	Total
nm03	Server Type 2	4 * 900 MHz	1840	2520	
			4		Comparison (# of times faster Production should be)
				12.2	Production estimate per minute (Comparison * per minute)
				10000	Validations per day
				1.O.1.10 Vertices	Minutes to process Hours to process

FIGURE 10

	12	3	4	5	1 6	7	1 8	9
Туре	# Per Day	ľ	ual Model formance	Mod/Prod Capacity Difference*	Overhead**	Expected Production Performance	Perfo	Production
Transaction 1	240			9.95	20%	1059.83	12.98	3115.80
Transaction 2	720	27.05	19479.17	9.95	20%	2447.13	4.92	3541.67
Transaction 3	400	20.56	8222.22	9.95	20%	1032.94		898.69
Transaction 4	800	93.05	74438.30	9.95	20%	9351.55		
Transaction 5	800	6.99	5595.82	9.95	20%	702.99		2144.02
Transaction 6	200	10.09	2017.20	9.95	20%	253.42	6.44	1287,62
Transaction 7	4000	118.61	474428.20		20%	59601.53	21.61	86453.84
Transaction 8	4000	157.55	630203.04		20%	79171.24		
Transaction 9	100	27.01	2700.62		20%	339.27	1.91	191.06
Transaction 10	200	23.32	4663.50		20%	585.87	4.63	925.93
	Total S	econds	1230184.28			154545.76		148201.26
	Total Hours 341.72					42.93		41.17
* Calculated from ** Estimated additional SpecINT ratings overhead				*** Improveme actual system	ents resulting performance	from load test	ing imp	roved the

FIGURE 11

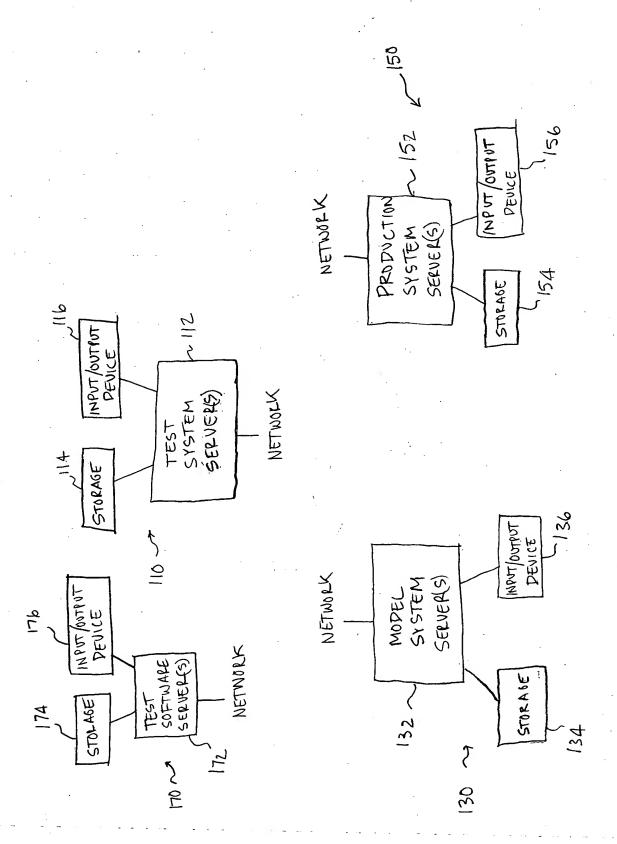


FIGURE 12.